

## **STENT DELIVERY SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

A stent delivery system is disclosed which includes an inner tube disposed  
5 within an outer tube in an annular space disposed therebetween. The distal end of the  
inner tube extends beyond the distal end of the outer tube and a balloon extends  
between the distal end of the outer tube and the distal end of the inner tube. A stent is  
disposed over the balloon. A heating mechanism is provided to heat the balloon  
which, in turn, transmits heat to the stent for expansion. An inflation media for the  
10 balloon is transported through the annular space to ensure continuous contact between  
the balloon and stent during deployment of the stent.